

Abstract

A method of specifying and configuring a causal relationship between the dynamics of a graphical model and the execution of components of the model is disclosed. Model component execution is tied to the occurrence of model events. Model events are first defined in the modeling environment. The occurrence of conditions in the model specified in the definition of the event causes the event to be “posted”. Model components that have been associated with the occurrence of the event “receive” the notice of the posting of the event and then execute. Random components within a subsystem may be designated to execute upon the occurrence of an event, as may non-contiguous components within a model. The association between model events and component execution may be specified without drawing graphical indicators connecting components in the view of the model.